Volume 30, Number 1, 1987

Contents

W. B. DAVIDSON and C. H. McMURRAY (Belfast, Northern Ireland, UK)
An Electrophoretic Analysis of Sheep Plasma Protein Labeled with $Na_2{}^{75}SeO_3$ in vivo 1

E. T. CHAMPAGNE and O. HINOJOSA (New Orleans, LA, USA)
Independent and Mutual Interactions of Copper(II) and Zn(II) Ions with Phytic Acid 15

T. ALLMAN and R. E. LENKINSKI (Guelph, Ontario, Canada)
Adriamycin Complexes of Pd(II) and Pt(II) 35

S. OOKUBO (Hachinohe, Japan), T. NOZAWA, and M. HATANO (Sendai, Japan)
Iron(II) and Iron(III) Low and High Spin Complexes Formed from *p*-Nitrophenolatoiron(III) Complex of Protoporphyrin-IX-dimethylester in the Presence of 1-Methylimidazole: Magnetic Circular Dichroism and ^1H Nuclear Magnetic Resonance Spectroscopic Studies 45

SHORT COMMUNICATION

A. A. ISAB (Dhahran, Saudi Arabia)
A Reaction between Captopril (A High Blood Pressure Drug) and Gold(I)-Thiomalate 69

Volume 30, Number 2, 1987

Contents

L. BANCI, I. BERTINI, E. GALLORI, C. LUCHINAT, F. PAOLETTI, M. POLSINELLI, and M. S. VIEZZOLI (Florence, Italy)
A Spectroscopic Investigation of Cobalt(II) Substituted Alkaline Phosphatase 77

V. A. SOROKIN, Y. P. BLAGOI, V. A. VALEEV, S. V. KORNILOVA, G. O. GLADCHENKO, I. D. REVA, and V. I. SOKHAN (Kharkov, USSR)
Studies of Formation of Bivalent Copper Complexes with Native and Denatured DNA 87

C. J. MARTIN (North Chicago, IL, USA) and W. J. EVANS (New Orleans, LA, USA)
Phytic Acid: Divalent Cation Interactions. V. Titrimetric, Calorimetric, and Binding Studies with Cobalt(II) and Nickel(II) and Their Comparison with Other Metal Ions 101

M. S. CHEUK, W. M. KEUNG, and T. T. LOH (Hong Kong)
The Effect of pH on the Kinetics of Iron Release from Diferric Ovotransferrin Induced by Pyrophosphate 121

M. TACHIBANA, M. IWAIZUMI, and S. TERO-KUBOTA (Sendai, Japan)
EPR Studies of Copper(II) and Cobalt(II) Complexes of Adriamycin 133

M. TACHIBANA and M. IWAIZUMI (Sendai, Japan)
EPR and UV-Visible Spectroscopic Studies of Copper(II) and Cobalt(II) Complexes of Hydroxyanthraquinones 141

BOOK REVIEW 153

Volume 30, Number 3, 1987

Contents

M. G. TORDI, M. C. SILVESTRINI, K. ADZAMLI, and M. BRUNORI (Rome, Italy)
Kinetics of *Pseudomonas aeroginosa* Cytochrome *c*551 and Cytochrome Oxidase Oxidation by $Co(phen)_3^{3+}$ and $Mn(CyDTA)(H_2O)^-$ **155**

M. C. GARCIA (Lubbock, TX), K. D. KARLIN (Albany, NY), and R. A. HOLWERDA (Lubbock, TX)
Oxidation of (Hydroxyethyl)ferrocene by [2-pyridylmethylbis(2-ethylthioethyl)/amine]copper(II) **167**

M. T. COFFER, C. F. SHAW III, and A. L. HORMANN (Milwaukee, WI), and C. K. MIRABELLI and S. T. CROOKE (Philadelphia, PA)
Thiol Competition for Et_3PAuS-Albumin: A Nonenzymatic Mechanism for Et_3PO Formation **177**

S. DONG and R. JIANG (Jilin, China)
Researches on Chemically Modified Electrode. XIX. Preparation of Iron Protoporphyrin Film Electrode by Electrochemical Polymerization and its Catalysis **189**

D. A. BALDWIN, H. M. MARQUES, and J. M. PRATT (Johannesburg, South Africa)
Hemes and Hemoproteins. 5: Kinetics of the Peroxidatic Activity of Microperoxidase-8: Model for the Peroxidase Enzymes **203**

D. L. HWANG, A. LEV-RAN, T. PAPOIAN, and W. K. BEECH (Duarte, CA)
Insulin-like Activity of Chromium-Binding Fractions from Brewer's Yeast **219**

J.-P. LAUSSAC and M. PASDELOUP (Toulouse, France) and N. HADJILIADIS (Ioannina, Greece)
NMR Studies on Binary and Ternary Pd(II) Complexes Formed by the Growth-Modulating Tripeptide Glycylhistidyllysine and Nucleotides **227**

M.-L. HU and A. L. TAPPEL (Davis, CA)
Selenium as a Sulfhydryl Redox Catalyst and Survey of Potential Selenium-Dependent Enzymes **239**

Volume 30, Number 4, 1987

Contents

P. ZATTA (Padova, Italy)
Kinetics of Reaction Between Hemocyanin and CN^-: A Comparative Study on the Hemocyanin of Five Species of Crustacea (*Carcinus maenas, Maja squinado, Squilla mantis, Eriphia spinifrons, Calappa calappa*) **247**

P. ROMANDINI, A. BAREL, M. BELTRAMINI, and B. SALVATO (Padova, Italy)
The Kinetics of Reconstitution of *Carcinus maenas* Apohemocyanin **253**

M. WOODS and J. MASON (Dublin, Ireland)
Spectral and Kinetic Studies on the Binding of Trithiomolybdate to Bovine and Canine Serum Albumin in Vitro: The Interaction with Copper **261**

L. KANG, J. LeGALL (Athens, GA, USA), A. KOWAL, and M. JOHNSON (Baton Rouge, LA, USA)
Spectroscopic Properties of Siroheme Extracted from Sulfite Reductases **273**

R. MONTICONE, R. NICK, and G. EICHHORN (Baltimore, MD, USA)
The Effect of Cellular Age on Zinc Levels in Untreated and Zinc-Treated Human Diploid Fibroblasts **291**

D. BRODERICK, J. DEAGEN, and P. WHANGER (Corvallis, OR, USA)
Properties of Glutathione Peroxidase Isolated from Human Plasma **299**

N. FARRELL and S. BARCZEWSKI (Belo Horizonte, Brasil)
Reactions of Oxobis(acetylacetonato)vanadium(IV) with Some Purine and Pyrimidine Bases and Nucleosides **309**

AUTHOR INDEX **317**

SUBJECT INDEX **319**

VOLUME CONTENTS